USER GUIDE

H.264

[Digital Video Recorder]

CAUTION

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT OPEN THE COVER
NO USER-SERVICEABLE PARTS INSIDE
CONSULT WITH QUALIFIED TECHNICIANS

WARNING

To prevent fire or electric shock, do not expose this product to rain or moisture. Due to dangerous high voltage inside, do not open the cover. Please consult with qualified technicians only.

Severe impact or vibration may cause malfunction.

Avoid a direct ray of light.

Keep away the conductor of electricity or heat from the fan.

Avoid placing the product with strong magnetism or in the environment with electricity, radio or TV.

Introduction

For users who attempt to use the Digital Video Recorder (DVR). This user guide introduces equipment installation/connection, features, functions and operation. Users are suggested to read this guide carefully before using the product. If you have any question, please consult with your local vendor.

About This Product

RoHS

This directive restricts the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment.

USA (FCC)

This device has been tested and found to comply with the limits of Class A computing device pursuant to part 15 of the FCC rules.

Europe (CE)

By affixing the CE marking, the manufacturer assures that the item meets all the essential requirements of all applicable EU directives.

Japan (PSE)

The purpose of the Electrical Appliance and Material Safety Law is to prevent hazards and disturbances resulting from electrical appliances.

Version 14000812

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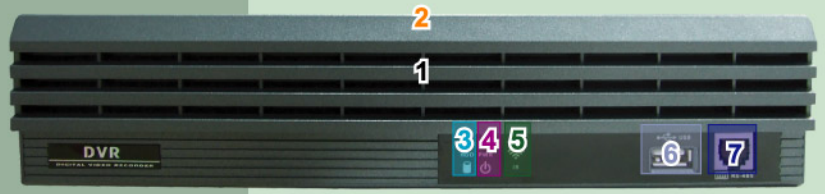
CHAPTER 1 PRODUCT OVERVIEW

1.1 Accessories

Item	Name and description	Pcs
1	IR remote control	x1
2	AAA NO.4 battery (for IR remote control)	x2
3	User guide	x1
4	Power cord of SATA HDD	x2
5	Cables of SATA HDD	x2
6	Screws (for HDD fixing)	x8
7	RS-485 (40 cm): to connect DVR and multi-keyboard	x1
8	Power cord	x1
9	Power adaptor	x1
10	IR extension cord (optional)	x1

NOTE: If there is any part missing or damaged, please contact your local vendor.

1.2 Front Panel



Item	Name	Description
1	Front panel	Indicators & connection ports
2	Cover	DVR cover
3	HDD indicator	Indicator of HDD status
4	Power indicator	Indicator of power status
5	IR receiver	For IR remote control
6	USB port	For USB backup
7	RS-485 connector	For multi-keyboard connecting

1.3 Rear Panel

Item	Name	Description
1	Power switch	ON/OFF
2	Power jack	DC 19V
3	Video in	BNC x 16
4	Dipswitch	75Ω
5	Audio in	RCA x 2
6	Audio out	RCA (L, R)
7	GND	GND hole
8	IR jack	IR extension jack
9	DVI	Video Output
10	VGA	Video Output
11	System switch	NTSC/PAL; DVI/VGA
12	Alarm I/O	Alarm Input/Output
13	LAN	RJ-45
14	RS-485	For PTZ cameras
15	USB port	For mouse control

1.4 Split-Type Multi-Keyboard

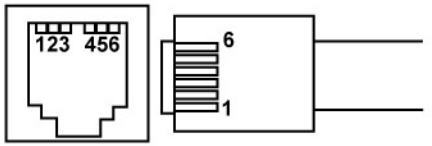
1.4.1 Control Panel

Item	Description
1	Indicators
2	Indicator of power status
3	Function keys
4	DVR ID selection keys
5	Numeral keys
6	Operation keys
7	PTZ camera control buttons
8	Shuttle knob

1.4.2 Rear Panel

Item	Description
1	Power jack
2	RJ11 connectors (for RS-485)

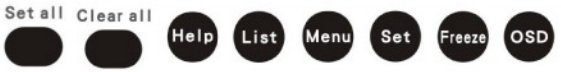
Baud Rate: 38400 bps



Pin NO	Pin Definition
1	No Connected
2	DC +12V
3	GND
4	DATA A(+)
5	DATA B(-)
6	No Connected

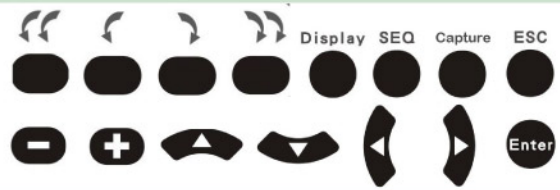
1.5 Remote Control

1. Function keys



2. Playback keys

3. Operation keys



4. Numeral keys

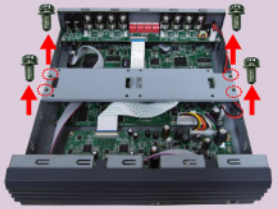
1 ~ 16

2.1 SATA HDD Installation

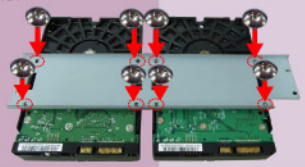
Follow the steps below to install HDD.

Step 1
Lightly push the tongue out; then take the cover away.

Step 2
Unscrew and take away the HDD bracket.



Step 3
Fix the HDD(s) with the bracket.



Step 4
Plug the HDD cables into the HDD(s).

Step 5
Plug the other end of cables into DVR properly, and screw the HDD bracket. Try to roll the HDD cables and keep away from the fan.

Step 6
Screw the HDD cover.

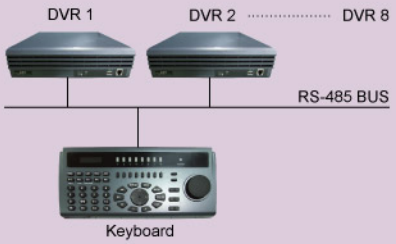
2.2 Connection of Keyboard & DVR

Connect with DVR and the split-type keyboard via RS-485 cable.

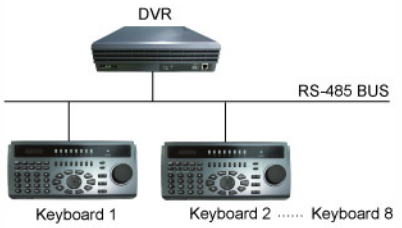
2.2.1 Connection mode

Single keyboard with single DVR

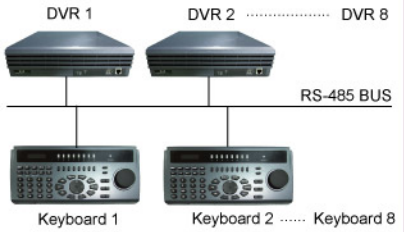
Single keyboard with Multiple DVRs



Multiple keyboards with single DVR



Multiple keyboards with multiple DVRs

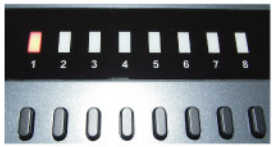


2.2.2 Control mode

Broadcast Control Mode (all LED lights are off):

Users are able to control all the connected DVRs while all LED lights are off.

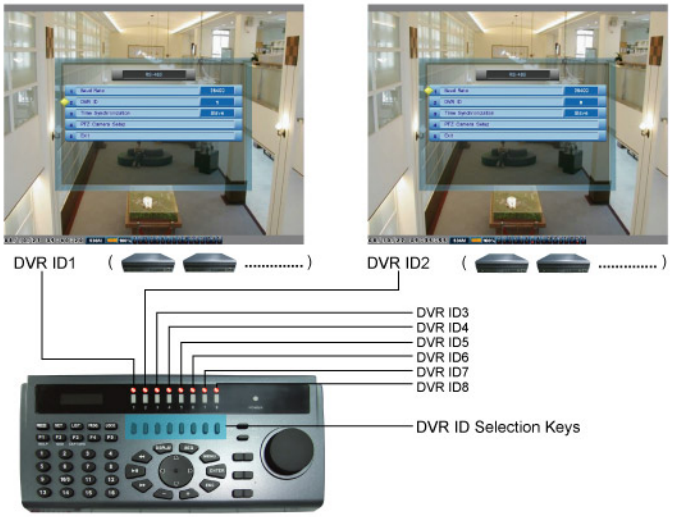
Specific Control Mode (only one of the LED light is on):



Users are able to control the specific unit(s) which DVR ID is (are) set as 1~8, while one of the LED lights is on.

PROG : Press and hold the key to switch to broadcast or specific control mode.

Press one of the DVR ID Selection Keys, users are able to control the DVR(s) which was (were) set an ID number (See Section 2.2.3 DVR ID setup).



2.2.3 DVR ID Setup

Setup the DVR ID by following steps.

Step1: Make sure the keyboard is in Broadcast Control Mode (all LED lights are off). If one of the lights is on, press and hold the key [PROG] PROG to turn off the light.

Step2: Press the key [MENU] MENU choose [Camera] → [RS-485] → select one of the cameras.

Step3: Set DVR ID as 1 ~8 by the keys [−] [+] − + .

Setp4: Press [ESC] ESC to skip back to live screen to save the settings.

Step5: Press and hold the key [PROG] PROG until one of the LED lights is on, as Specific Control Mode.

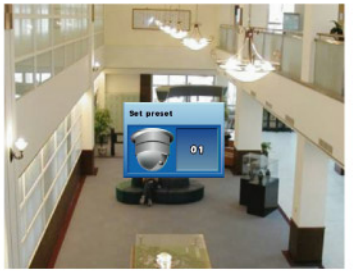
2.3 Set Preset & Goto Preset

2.3.1 Set Preset

Press the key [SET PRESET] SET PRESET to enter the Set Preset mode.

1 – 16 − + : Set the preset value by the keys.

ENTER : Press the key to set preset.

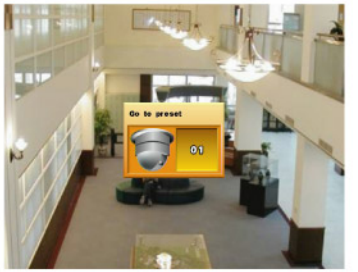


2.3.2 Goto Preset

Press the key [GOTO PRESET] GOTO PRESET to enter the [Goto Preset] mode.

1 – 16 − + : Enter the preset number.

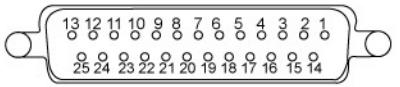
ENTER : Press to go to preset.



2.4 Alarm Installation

2.4.1 Pin Definition

Alarm I/O connector is 25-pin D-SUB female type.



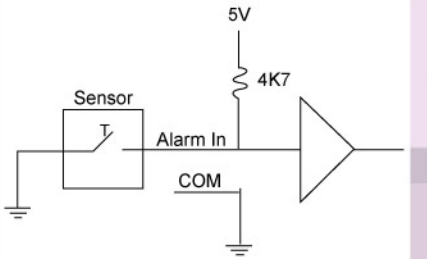
DB 25 PIN NO	Name	Function	Specification
1	ALM_IN1	SENSOR INPUT	SENSOR SINGAL 1
2	ALM_IN3	SENSOR INPUT	SENSOR SINGAL 3
3	ALM_IN5	SENSOR INPUT	SENSOR SINGAL 5
4	ALM_IN7	SENSOR INPUT	SENSOR SINGAL 7
5	ALM_IN9	SENSOR INPUT	SENSOR SINGAL 9
6	ALM_IN11	SENSOR INPUT	SENSOR SINGAL 11
7	ALM_IN13	SENSOR INPUT	SENSOR SINGAL 13
8	ALM_IN15	SENSOR INPUT	SENSOR SINGAL 15
9	GND_EARTH	SENSOR COMMON	GND EARTH PIN
10	ALM_OUT1	ALM OUTPUT	ALM OUTPUT 1
11	ALM_OUT3	ALM OUTPUT	ALM OUTPUT 3
12	ALMNC1	Relay	Relay NC PIN
13	ALMNO1	Relay	Relay NO PIN
14	ALM_IN2	SENSOR INPUT	SENSOR SINGAL 2
15	ALM_IN4	SENSOR INPUT	SENSOR SINGAL 4
16	ALM_IN6	SENSOR INPUT	SENSOR SINGAL 6
17	ALM_IN8	SENSOR INPUT	SENSOR SINGAL 8
18	ALM_IN10	SENSOR INPUT	SENSOR SINGAL 10
19	ALM_IN12	SENSOR INPUT	SENSOR SINGAL 12
20	ALM_IN14	SENSOR INPUT	SENSOR SINGAL 14
21	ALM_IN16	SENSOR INPUT	SENSOR SINGAL 16
22	5V_OUT	DC 5V OUTPUT	5V OUTPUT PIN
23	ALM_OUT2	ALM OUTPUT	ALM OUTPUT 2
24	X	X	X
25	ALMCOM1	Relay	Relay Common PIN

2.4.2 Connecting to DVR

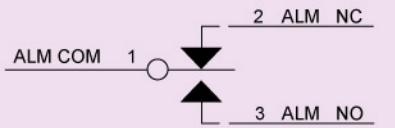
Connect alarm devices with DVR via 25-pin D-SUB port

Alarm figure

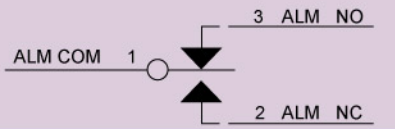
1. Alarm Input



2. Alarm output (Normal Close)



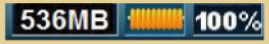
3. Alarm output (Normal Open)



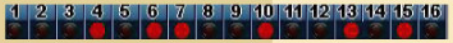
NOTE: For other alarm setup, please refer to Chapter 4.

3.1 Display Screen

3.1.1 Full Screen



Information of HDD storage & percentage



Indicators of recording

3.1.2 Display Mode

Press the key [DISPLAY]

to choose display mode.

3.1.3 Sequence Mode

Press the key [SEQ]

to enter sequence mode.

3.2 Main Menu

Press the key [MENU]

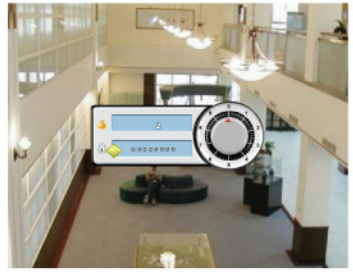
to call the main menu. Please refer to chapter 4 for details.

3.3 Event List

Press the key [LIST]

to call the event list.

NOTE: If users set "Password Enable" as **O**, the DVR will request level 2 (ID: 2) password to enter Event List. (Default password of ID 2: 22222222).



Each HDD is allowed to save up to 4096 events. If users change a new HDD, the event list will be removed together with the old HDD.

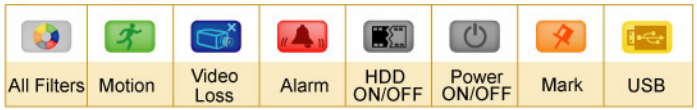
3.3.1 Event Filter

Users are able to search events by channel(s), or event filter(s).

By Channel(s)

: Select all or a specific camera(s).

By Event Filter(s)



: Select all or a specific event filter(s).

The different colors of event filters enable users to search events simply. Meanwhile, each event filter comes with an auxiliary search cursor in same color, it is helpful to show users what happened when they are playing the images. (Refer to Section 3.4 Playback).

3.3.2 Event Details

Event No.	Camera ON/OFF	Filter	Data/ Time	Event Source HDD/CF Card

In the column of filter, it will show the filter icons in different colors, users can easily search the events.

When the cursor is moved to one of the events, the background will be changed to the beginning of the event.

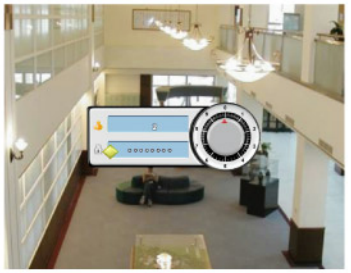
3.3.3 Play / Delete an Event

: Select an event. : Play or pause the selected event.

: Delete the selected event.

3.4 Playback

In live mode, press to enter playback mode.



NOTE: If users set "Password Enable" as O, the DVR will request level 2 (ID: 2) password to enter Event List. (Default password of ID 2: 22222222).

: Select date, hour, minute, second or frame.

: Adjust the date/time/frame.

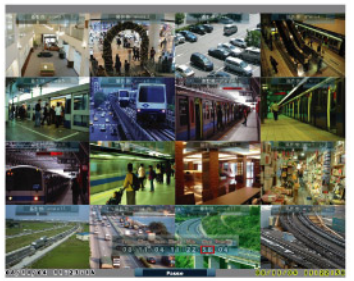
3.4.1 Playback

In playback mode, after searching the specific date and time, press play/pause the video.

1 – 16 : Switch full screen display of the channel.

3.4.2 Split Screen

In playback mode, press [DISPLAY] and press [ENTER] to choose one of the display modes.



3.4.3 Playback Mark

Press [ENTER] to mark the timing of important video when searching the playback data, and the orange cursor will be shown in the center of the bar.

3.4.4 Auxiliary Search Cursors:

This smart search design allows users to search data quicker and easier, meanwhile, the colorful cursors are helpful to diagnose the happened events.

All Filters	Motion	Video Loss	Alarm	HDD ON/OFF	Power ON/OFF	Mark	USB

For Example:

Below pictures shows many events happened, users can select date/time/frame and press the key [UP & DOWN] to quickly skip to the specific event.

3.5 Freeze

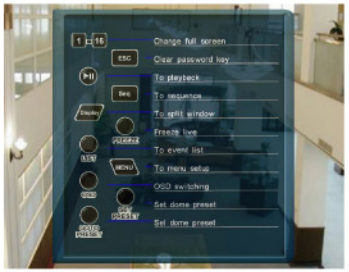
Press [FREEZE] FREEZE to freeze images, and press the button again to exit freeze mode.

3.6 Lock Keyboard

Press and hold the button [LOCK] LOCK for 3 seconds to lock/unlock the keyboard.

3.7 On-line Help

Press [F1] F1 to call on-line help for current operation.



If users set "Password Enable" as O, the DVR will request at least level 1(ID:1) password to enter Main Menu. (The default password of ID 1: 11111111)

4.1 Camera

Main Menu → Camera

4.1.1 Camera Color Adjust

: Select the item.

: Adjust the setting.

4.1.2 Camera Title Type

: Editable camera title type. Users are able to revise it via network.

NOTE: It can be shown all the languages which MS Windows System supports.

: Un-editable camera title type. : No camera title shown on the screen.

4.1.3 Sequence Time

Users are able to set the sequence time from 1~255 seconds.

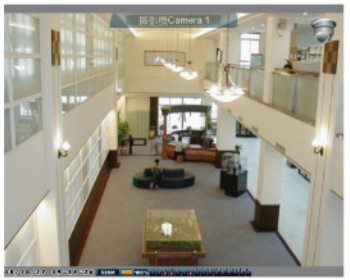
4.1.4 RS-485

1. Set the [Baud Rate] for PTZ camera.
2. Select the item [PTZ Camera Setup], and choose one of the cameras.

Set the [Camera ID], [Control Enable] and [Protocol].

○ : Enable to control PTZ camera.
✕ : Disable to control PTZ camera.

It will show an icon of dome camera on the upper right corner of full screen while the [Control Enable] is set as ○.



4.2 Setup

Main Menu → Setup

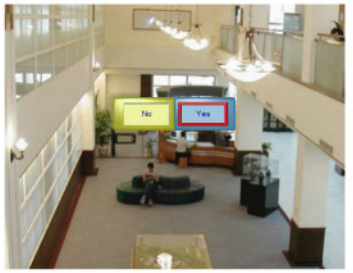
: Select the item.

: Adjust the setting.

4.2.1 Load Default

Load factory's default configuration.

No	Do not load factory's default settings.
Yes	Load factory's default settings.



NOTE: Load Default function will not change password, and the setting of [Password Enable/Disable].

4.2.2 Language

This DVR supports 18 versions of OSD language: T-Chinese, S-Chinese, Japanese, English, Czech, Dutch, Spanish, French, Italian, Deutsch, Polish, Russian, Hebrew, Thai, Danish, Swedish, Finnish and Vietnamese.

4.2.3 Fan Speed

The lower the fan speed, the quieter the fan sound, but the higher the HDD temperature, vice versa.

Low: Low fan speed.
Middle: Middle fan speed.
High: High fan speed.

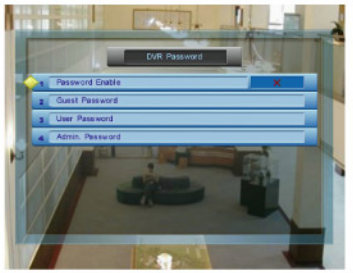
4.2.4 Date/Time Setup

Users can change the date mode as Y/M/D, M/D/Y or D/M/Y.

NOTE: It is necessary to press enter on Exit/ Update to save the settings.

The date mode set here will be shown in the bottom-left corner of the screen.

4.2.5 DVR Password



Password Enable
Only users of ID 3 are able to enable/disable password authority, and change the passwords.

○ Password Enable: the DVR will request password to enter Main Menu, users without password are allowed live monitoring only.

X Password Disable: the DVR will NOT request password to enter Main Menu.

Guest Password (ID: 1)
Guests are able to enter menu only. (Default password: 11111111)

User Password (ID: 2)
Users are able to enter menu and playback mode. (Default password: 22222222)

Admin Password (ID: 3)
Users have the authority to manage passwords. (Default password: 33333333)

: Adjust and set the value of password.

4.2.6 Information

Users can check the DVR information including software, hardware, start/stop recording time of HDD and LAN.

4.3 Record

Main Menu → Record

4.3.1 Record Mode

No recording: The DVR will NOT record.

Overwriting: The HDD will be overwritten even though the HDD status bar shows "100%".

4.3.2 Frame Rate

Alarm/Motion/Working/Non-working Rate
Set the frame rate for Alarm/Motion, Working and Non-working Rate of each camera.

NOTE: Users are able to define the Working, Non-working or Alarm/Motion Hours in the Schedule function (please refer to Section 4.3.3 & 4.4.5).

Real Rate
The DVR system will be able to calculate & allocate Real Rate automatically when users change Working Rate.

Quality
1-star stands for the most basic image quality for the longest recording time, whereas 5-star is for the best recording quality.

NOTE: The background channel, image quality and frame rate will be changed immediately when users adjust the settings of Working Rate and Quality.

Audio
Users can install audio devices in channel 1 and channel 2.

Resolution
The DVR provides frame and field recording modes.

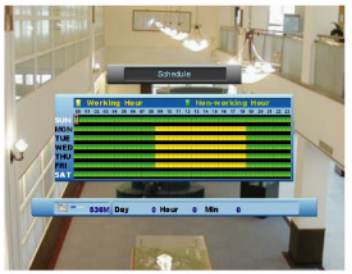
4.3.3 Schedule

: Move and adjust the cursor,

and press to set Working or Non-working Hours.

: Set/Clear all as working/non-working hour.

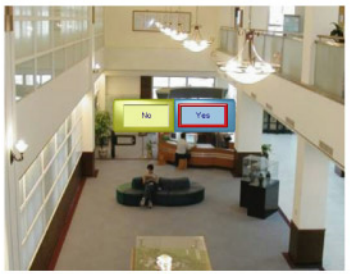
: Working Hour
: Non-working Hour



4.3.4 Format HDD

No — Do not format HDD.

Yes — Format HDD.



WARNING: All the recorded data including event list will be deleted after format HDD.

4.4 Alarm

Main Menu → Alarm

4.4.1 Video Loss Alarm

O : Enable video loss alarm.

X : Disable video loss alarm.

4.4.2 Alarm-in Type

Alarm In Type defines the types of alarm-in.

OFF : Off NC : Normal Close NO : Normal Open

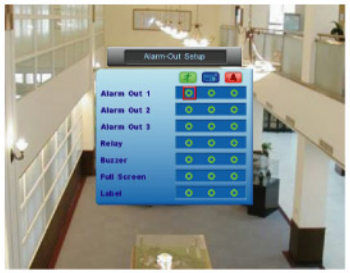
4.4.3 Response Duration

Set post-recording time (1~255 seconds) in this item.

4.4.4 Alarm-Out Setup

Set alarm out, relay, buzzer, full screen and label while motion, video loss or alarm is happened.

Label:
It will show [Motion], [Video Loss] or [Alarm] on the screen while the specific event is happened.



4.4.5 Alarm/Motion Schedule

: Move and adjust the cursor,

and press ENTER to set Working or Non-working Hours.

SET ALL CLEAN ALL : Set/Clear all as working/non-working hour.

: Alarm/Motion Hour

: Non-Alarm/Motion Hour

4.4.6 Motion:

ENTER : Choose one of the cameras.

: Move and adjust the cursor,

and press ENTER to set Motion Detection Area.

: Adjust the sensitivity, the bigger the number, the higher the sensitivity.

SET ALL CLEAN ALL : Set/Clear all as working/non-working hour.

4.5 USB Backup

Main Menu → USB

4.5.1 Start / Stop Time & Channel

: Set the start/stop time and channel which is going to be saved to USB flash drive.

4.5.2 Save

Check USB Flash Drive
When a USB Flash Drive is inserted into the DVR, it will show "USB Check OK!" on the screen. Format USB Flash Drive if the message shown.

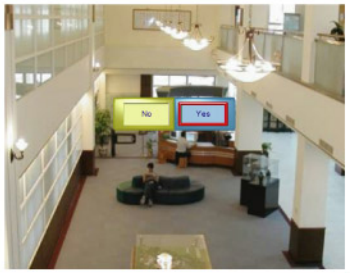
USB Flash Drive Storage Requirement
The DVR supports 128MB~8GB capacity of USB Flash Drive.

Backup
The backup file will be named by Start Time as "ch0x_YYYYMMDDhhmmss.mov" with "FAT 16" form which can be played by Quick Time Player.

Check the backup file(s)
After backup is finished, users can check the event list to see if it is successful.

4.5.3 Format

Insert a USB flash drive to format it.



No	Do not format USB Flash Drive.
Yes	Format USB Flash Drive.

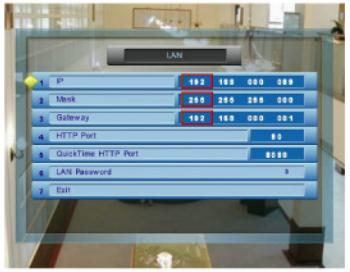
WARNING: All the data in the USB Flash Drive will be deleted after choosing "Yes"

4.6 Network

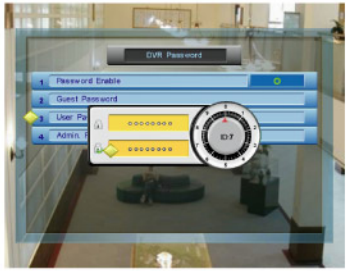
Main Menu → LAN

:

Move and set IP, Mask, Gateway, HTTP and Quick Time HTTP port.



LAN Password
Only users of ID 3 (default password: 33333333) are able to manage LAN password..



1. Guest Password (ID: 7)
Guests are able to view remote live only. (Default password: 11111111)

2. User Password (ID: 8)
Users are able to view remote live and playback. (Default password: 22222222)

3. Admin Password (ID: 9)
This is the highest level, users can also set IE parameters including PPPoE and DDNS settings… etc. (Default password: 33333333)

5.1 System Requirements

It is necessary to prepare for a PC which comes with qualified versions of hardware and software to make IE connect.

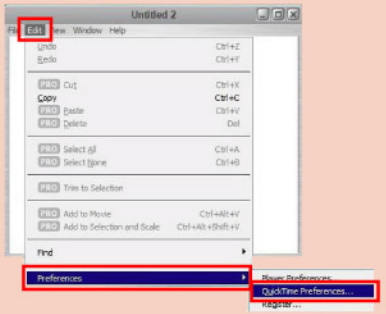
System Requirements

1. PC: Intel Pentium III or higher, 512MB RAM, 1GB HDD space
2. Operating System: Microsoft Windows 2000, XP or Vista
3. Web Browser: Internet Explorer 6.0 or above
4. QuickTime Player: please surf *www.apple.com/quicktime/download/* to download a version 7.0 or above.

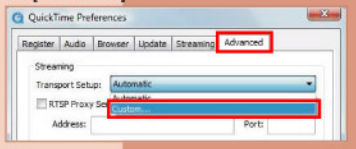
5.2 Getting Start

Before connecting to DVR via IE browser, users are required to change some settings of QuickTime Player and NetView as below steps.

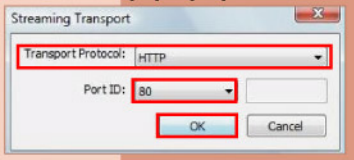
Step 1
Open QuickTime Player, choose [Edit] → [Preferences] → [QuickTime Preferences]



Step 2
Choose [Advanced] → set Transport Setup as [Custom…]



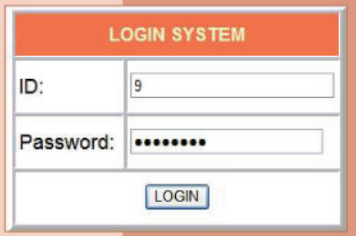
Set Transportation Protocol as [HTTP] → and set Port ID as [80] → [OK]



NOTE: The default Port ID is 80, users are able to change the value properly according to their network settings.

Step 3
Open IE browser, enter IP address of the DVR, and press [Enter]. (The default IP address of the DVR: 192.168.0.89)

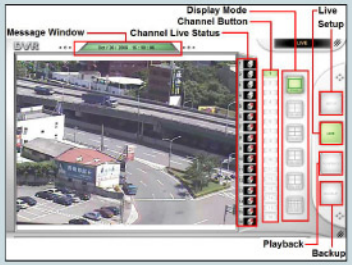
Step 4
Enter ID and Password to login to the NetView



The default passwords of users.

	ID	Password
Guest Password	7	11111111
User Password	8	22222222
Admin Password	9	33333333

6.1 Overview



Channel Live Status

	Video of the channel is working properly.
	Video loss in the channel.
	An alarm is triggered even though a motion is etected in the channel.
	Motion is detected in the channel..

Message Window

It will show the current or playback time in live or playback mode. If the message [Disconnected] is shown, please click the button or press [F5] to refresh the web page.

6.2 Live & Playback

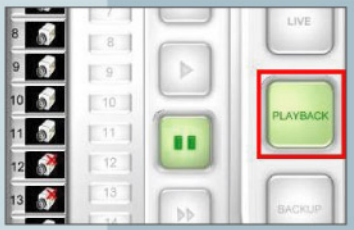
Live

Click the button [LIVE] and choose [Display Mode] for remote live viewing.

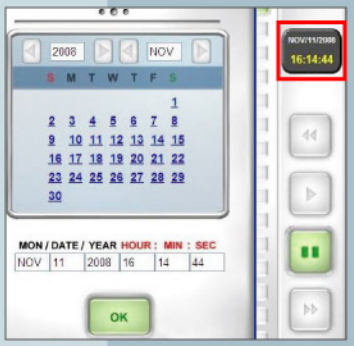
NOTE: All users ID: 7, 8 and 9 are able to monitor live images remotely.

Playback

Click the button [PLAYBACK] and choose one of the channels for playback viewing.



Click the button to search an appropriate date & time, and click rewind, pause/play or fast forward to view the playback video.



NOTE: Only users of ID: 8 and 9 are able to enter playback model.

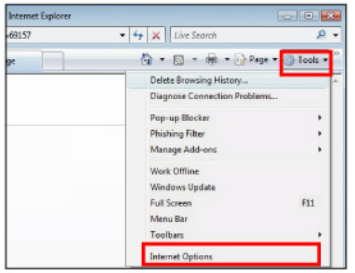
6.3 Backup

1. Initial settings of backup function

Before operating backup function, users are required to download unsigned ActiveX controls as following steps:

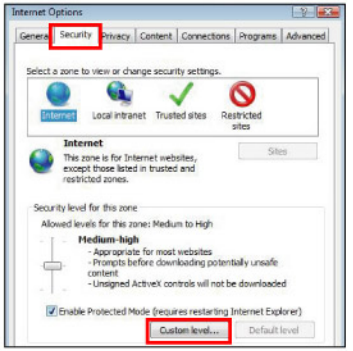
Step 1

Click [Tool] of IE browser, choose [Internet Options]



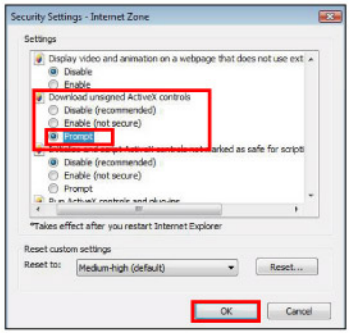
Step 2

Choose the label of [Security] →Custom level…]



Step 3

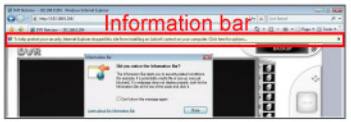
Find the item [Download unsigned ActiveX controls] → choose [Prompt] → [OK]



Step 4

Click the button [BACKUP]

There will be an information bar and windows message shown [Did you notice the Information Bar?] → Click [Close]



Step 5

Right-click the information bar, choose [Install ActiveX Control…]

Click [OK] while a message is shown [Windows has blocked this software because it can't verify the publisher.]

Internet Explorer Add-on Installer - Security Warning
Windows has blocked this software because it can't verify the publisher.
Name: Project1.cab
Publisher: Unknown Publisher
OK
To help protect your computer, Windows will block software when it cannot verify the publisher. See how this helps protect your computer.

2. Backup

Step 1

Click the button [BACKUP] and choose one of the channels for remote backup function.

Step 2

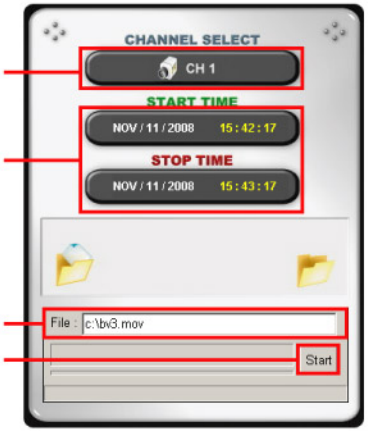
Select one of the channels and appropriate start/stop date & time which is going to be saved.

Step 3

Set a path to save the backup file.

Step 4

Press the button [Start] to start downloading the file.


Select one of the channels
Set an appropriate start/ stop date & time
Select a path to save the backup video
Press [Start] to start saving the file
CHANNEL SELECT
CH 1
START TIME
NOV / 11 / 2008 15 : 42 : 17
STOP TIME
NOV / 11 / 2008 15 : 43 : 17
File : c:\bv3.mov
Start

Users can press the button [Stop] to stop downloading while the file is transferring.

CHANNEL SELECT
CH 1
START TIME
NOV / 24 / 2008 21 : 29 : 25
STOP TIME
NOV / 24 / 2008 21 : 30 : 25
File : C:\bv081125-01.mov
Stop
Download : 13%, Size : 478 KBytes, Remain Time : 52S

NOTE: Only users of ID: 9 are able to enter backup mode.

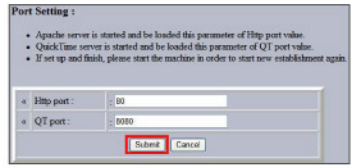
6.4 Setup

Click the button [SETUP] to set the network settings.

NOTE: All Users of ID: 7, 8 and 9 are able to enter setup mode, but only ID: 9 is authorized to change DDNS and PPPoE settings.

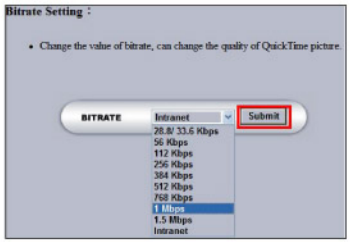
1. Streaming

Click [Streaming] to set the port value for Http and QuickTime, click [Submit] to save the settings.


Port Setting :
Apache server is started and be loaded this parameter of Http port value.
QuickTime server is started and be loaded this parameter of QT port value.
If set up and finish, please start the machine in order to start new establishment again.
Http port : 80
QT port : 8080
Submit
Cancel

2. Bitrate

Click [Bitrate] to select an appropriate bitrate → click [Submit] to save the setting.



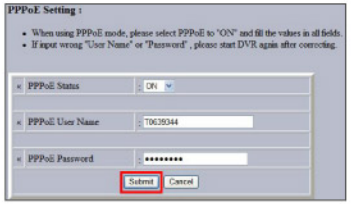
NOTE: The higher the Bitrate, the better the video quality, and lower the frame rate. Intranet users should choose "Intranet" for the best video quality.

6.5 PPPoE

PPPoE, Point-to-Point Protocol over Ethernet, is a network protocol used mainly with ADSL services.

PPPoE Settings

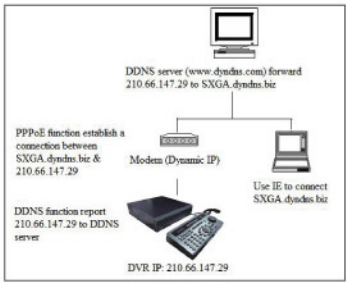
In Setup mode, click [PPPoE]. Set PPPoE Status as [ON], and enter the [PPPoE User Name] and [PPPoE Password] assigned by the ISP. Click [Submit] and reboot the DVR.


PPPoE Setting :
When using PPPoE mode, please select PPPoE to "ON" and fill the values in all fields.
If input wrong "User Name" or "Password" , please start DVR again after correcting.
PPPoE Status
ON
PPPoE User Name
T0639344
PPPoE Password
Submit
Cancel

6.6 DDNS

DDNS, Dynamic DNS allows the domain name data held in a name server to be updated in real time. The most common use for this is to allow an Internet domain name to be assigned to a computer with a dynamic IP address.

The following is an example to create a DDNS account.


DDNS server (www.dyndns.com) forward 210.66.147.29 to SXGA.dyndns.biz
PPPoE function establish a connection between SXGA.dyndns.biz & 210.66.147.29
Modem (Dynamic IP)
Use IE to connect SXGA.dyndns.biz
DDNS function report 210.66.147.29 to DDNS server
DVR IP: 210.66.147.29

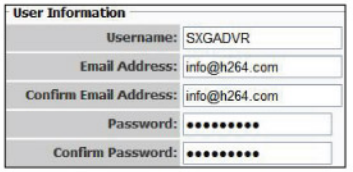
6.6.1. Create a Free DDNS Account and Host Name

Step 1

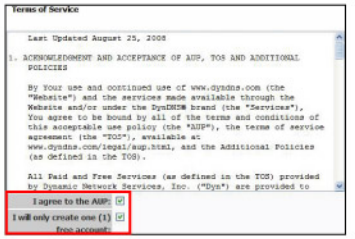
Go to the website ***www.dyndns.com*** and click [Create Account].

Step 2

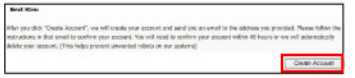
Enter the [User Information]: [Username], [Email Address] and [Password] to create a DDNS account. Please be minded that it is necessary to put on an effective IP address, and remember the password, as it will be confirmed and noticed by email.



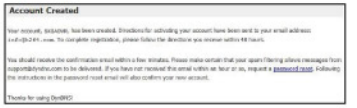
Check the two boxes below the [Terms of Service]


Terms of Service
Last Updated August 25, 2008
1. ACKNOWLEDGMENT AND ACCEPTANCE OF AUP, TOS AND ADDITIONAL POLICIES
I agree to the AUP:
I will only create one (1) free account:

Click the button [Create Account] on the bottom of the page.



The account is created, and users should receive the confirmation email within a few minutes.

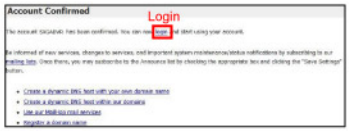


Step 3

Check the email box, and find the confirmation email sent by DynDNS Support. Visit the confirmation address to complete the account creation process.

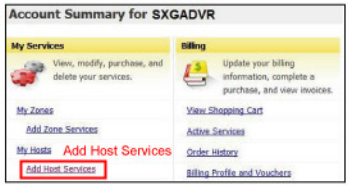
DynDNS Support
Your DynDNS Account Information
Your DynDNS Account 'SXGADVR' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.

The account is confirmed, click [login] to start using the account.



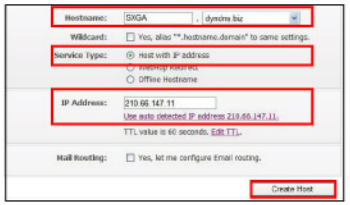
Enter the [Username] and [Password] → click the button [Login]

Click the item [Add Host Services]



Step 4

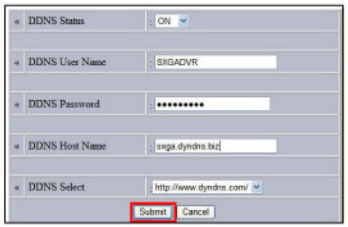
Create new hostname, enter [Hostname], [Service Type] and [IP Address] → click [Create Host]



6.6.2. DDNS Settings

Step 1

In SETUP mode, click [DDNS], set DDNS Status as [ON], enter [DDNS User Name], [DDNS Password] and [DDNS Host Name], and choose [DDNS Select]. Click [Submit] and reboot the DVR.



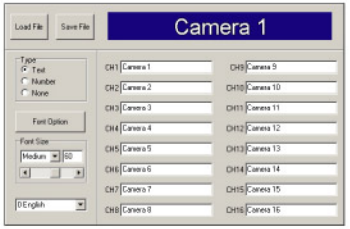
Step 2

Connect to DVR by DDNS host name.
Open IE browser, enter [DDNS Host Name], and press [Enter].

NOTE: If the connection is failed, please refer to the Chapter 5~6.

6.7 Title

Users are able to change the camera title of DVR via internet by this application.



Step 1

In SETUP mode, click [TITLE], set [Type] as [Text], and chose [Font Option], [Font Size] and [Language].

Text: Editable camera title
Number: Un-editable camera title, only number will be shown
None: Shows nothing

Step 2

Input camera title in each text box.

NOTE: The camera titles will be shown on the DVR in all language versions which MS Windows System supports.

Step 3

Click [Save File] to save the camera titles in the computer. Users are able to click [Load File] to upload the camera titles without inputting again.

APPENDIX

Specification

Model		8CH	16CH
Function	*No. of cameras*	8	16
	User interface	Animated GUI	
	Multiplex mode	Quadruplex (Live, Record, Playback, Ethernet)	
	Display resolution	1280x1024 (split display mode)	
	Display mode	1/4/9	1/4/9/16
	Live frame rate NTSC	60/120/240fps	60/12/240/480fps
	PAL	50/100/200fp	50/100/200/400fps
	Color	16M colors (Y:8, U:8, V:8) 4:2:2	
	Sequence	Yes	
	PTZ control	Yes	
	Watch dog	Yes	
Record	*Resolution*	NTSC: 640x480/ 640x240, PAL: 640x512/ 640x256	
	Frame rate NTSC	60/120fps @ 640x480/640x240	120/240fps @ 640x480/640x240
	PAL	50/100fps @ 640x512/640x256	100/200fps @ 640x512/640x256
	Recording quality	5 levels	
	Compression algorithm	H.264 enhanced	
	Average compression rate	More than 300:1	
	Schedule	Yes	
	Motion recording	Yes	
	Pre-recording	3 sec ~ 5 sec	
	Post-recording	1 sec ~ 255 sec (programmable)	
Playback	*Search mode*	Smart search by file / event / time / frame	
	Search speed	Date, hour, min, sec, frame, pause	
	Playback speed	Pause, x1, x5, x15, x60	
Connector	*Video in BNC*	8	16
	Video out DVI	1280x1024	
	Video out VGA	1280x1024	
	Audio in	RCA x 2	
	Audio out	RCA (L, R)	
	Ethernet 10/100M	RJ45 x 1	
	RS-485	RJ11 x 1	
	Keyboard	RJ11 x 1	
	DC jack	1	
	Alarm port	1 (alarm-in x16, alarm-out x3, relay-out x1)	
	USB	x 2	
	IR remote control	Yes	
Alarm/ Motion	*Motion detection*	1200 motion zones	
	Motion detection sensitivity	100 levels	
	No. of alarm outputs	3	
	No. of alarm inputs	16	
	Alarm type	NO (Normal Open), NC (Normal Close)	
Event	*Size of event list*	4096 events per disk	
	Event source	Alarm, motion, video loss, power on/off, discontinued record, mark, USB	
Ethernet	*10/100M LAN*	Yes	
	Remote viewing	IE browser, suggested resolution: 1024x768 or above	
HDD	*SATA HDD bay*	2	
	HDD capacity	120GB ~ 1000GB	
Backup	*USB*	Yes	
Specification	*Voltage*	DC19 Voltage	
	Voltage range	100~240 V	
	Power MAX	60W	
	Operating temperature	5 ~ 40℃	
	Operating relative humidity	10 ~ 75 %	
	Net weight	2.5 kg	
	Shipping weight	5 kg	
	Dimension (mm)	260(L) x 277(D) x 67(H)	

H.264 Digital Video Recorder